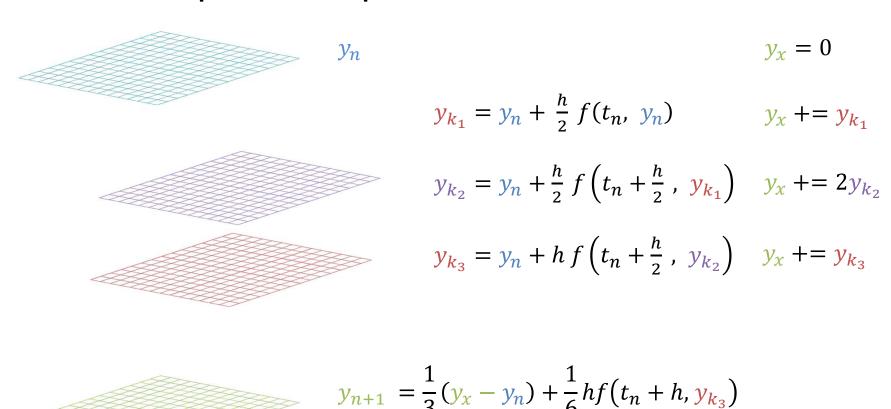
Code specs | RK4 Integrator

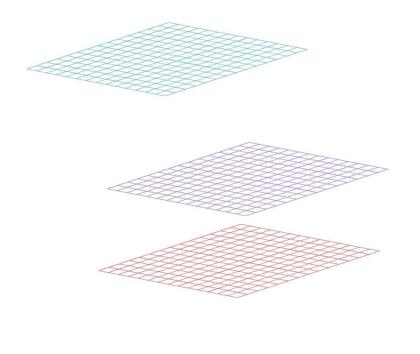
A more optimal implementation: $4N^3$



Code specs | RK4 Integrator

Given a starting y_p , compute internally or externally

$$y_a = y_p$$
, $y_f = 0$



$$y_c = f(y_a)$$

$$y_c = y_p + \frac{h}{2}y_c; \ y_f += y_c$$

$$y_c \leftrightarrow y_a$$

$$y_c = f(y_a)$$

$$y_c = y_p + \frac{h}{2}y_c; \ y_f += 2y_c$$

$$y_c \leftrightarrow y_a$$

$$y_c = f(y_a)$$

$$y_c = y_p + hy_c; y_f += y_c$$

$$y_c \leftrightarrow y_a$$

$$y_c = f(y_a)$$

 $y_f = y_p = \frac{1}{3}(y_f - y_p) + \frac{1}{6}hy_c$